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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/921,192	08/02/2001	David C. Turner	VTN-548	6090
PHILIP S. JOH	7590 06/05/200 'NSON	EXAMINER		
ONE JOHNSON & JOHNSON PLAZA			WOLLSCHLAGER, JEFFREY MICHAEL	
NEW BRUNS	WICK, NJ 08933-7003		ART UNIT	PAPER NUMBER
			1732	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	09/921,192	TURNER ET AL.			
Office Action Summary	Examiner	Art Unit			
	Jeff Wollschlager	1732			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on <u>16 March 2007</u> .					
2a) ☐ This action is FINAL . 2b) ☒ This	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-3,5-20,23-32 and 34-87</u> is/are pending in the application.					
4a) Of the above claim(s) 12,13,27-30 and 42-51 is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-3,5-11,14-21,23-26,31,32,34-41 and 52-87</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date					
S) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:					

DETAILED ACTION

Response to Amendment

Applicant's amendment to the claims filed on March 16, 2007 has been entered. Claim 21 has been canceled. Claims 1, 34 and 75 are currently amended. Claims 12, 13, 27-30, and 42-51 remain withdrawn from further consideration. Claims 1-3, 5-11, 14-20, 23-26, 31, 32, 34-41 and 52-87 are under examination.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-3, 5-8, 14-20, 23, 31, 32, 34-38, and 52-87 are rejected under 35 U.S.C. 103(a) as being unpatentable over Muir et al. (WO 00/04078; published January

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27, 2000) in view of either of Mueller et al. (EP 0 362 137) or Vanderlaan et al. (6,087,415) and in view of Martin et al. (US 6,039,899).

The citations from Muir et al., employed in this rejection are drawn from U.S. Patent 6,893,595.

Regarding claims 1-3, 5-7, 14-18, 31, 32, 36 and 37, Muir et al. disclose a method comprising: a) coating a molding surface of a mold with a coating of a high molecular weight coating composition, specifically a coating polymer denoted as Polymer A, (Abstract; col. 2, lines 7-12); b) dispensing a monomer mixture comprising a silicone containing hydrogel monomer into the mold (Abstract; col. 2, lines 13-17); and c) curing the monomer mixture, denoted as Polymer B, and the coating composition to produce articles such as a contact lens (Abstract; col. 2, lines 18-24).

Muir et al. further disclose that the coating polymer may be of any suitable type, specifically referring to polyvinyl alcohols (col. 4, lines 50-56). They also make reference to EP-A-0362137 as providing other suitable coating polymers (col. 4, lines 50-56). Muir et al. do not disclose a high molecular weight polymeric coating such as poly(2-hydroxyethyl methacrylate) or various of the other claimed coating polymers. Muir et al. also do not disclose the molecular weight of the polymer as being greater than 300 kD as claimed.

However, Mueller et al. disclose hydrophilic, polymeric mold coatings (Abstract; page 3, lines 14-46) such as 2-hydroxyethyl methacrylate (page 4, lines 21-35) employed to improve the wettability of a molded article (page 2, lines 39-45) having a molecular weight as high as 5,000,000 (page 5, lines 41-55) to produce an article

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coated with the polymeric coating. Alternatively, Vanderlaan et al. disclose coating contact lenses with polymeric materials such as poly(acrylic acid) having a molecular weight most preferably from about 100,000 to 1,000,000 by contacting the polymer and the contact lens for a period of time from about 1 minute to about 60 minutes (col. 5, lines 12-22; col. 2, lines 13-47) to provide an antimicrobial lens that can withstand washing and saline solution (col. 1, lines 59-62; col. 2, lines 20-22).

Further, Muir et al. teach the curing may be performed by various conventional methods such as with the use of a catalyst (col. 10, lines 1-10) and UV and actinic radiation (col. 11, lines 30-55). Muir et al. also teach that the cure time is optimized with initiators and chain transfer agents (col. 15, lines 11-18). Muir et al. do not explicitly teach the dwell time is less than about 5 minutes or less than about 45 seconds.

However, cure time, as taught by Muir et al., is a function of a variety of variables such as the amount and type of catalyst, sources of energy, initiators and chain transfer agents. Furthermore, the cure time is impacted by the specific composition of the coating and monomer mixture, the amount and type of diluents and other additives employed, the amount of energy applied, and the thickness of the molded article. Accordingly, the dwell time would have been readily optimized as is routinely practiced in the art to improve productivity and to reduce costs.

Furthermore, Martin et al. disclose an automated method of producing contact lenses in a fast, efficient and precise manner (col. 3, lines 37-62) within the claimed dwell times (col. 10, lines 60-67; col. 32, lines 28-41; col. 34, line 64-col. 35, line 15).

Therefore it would have been *prima facie* obvious to one having ordinary skill in the art at the time of the claimed invention to have modified the contact lens coating method disclosed by Muir et al. with the contact lens coating polymers disclosed by either of Mueller et al. or Vanderlaan et al. since Muir et al. suggest employing the polymers disclosed by Mueller et al. and Vanderlaan et al. disclose their coatings provide an antimicrobial lens that can withstand washing and saline solution (col. 1, lines 59-62; col. 2, lines 20-22).

Further, it would have been obvious to one having ordinary skill in the art at the time of the claimed invention to have employed the automated process disclosed by Martin et al. to practice the method of coating a contact lens disclosed by Muir et al. for the purpose of producing a contact lens in a fast, efficient and precise manner (Martin: col. 3, lines 37-62).

As to claims 8, 23, and 38, Muir et al. teach the coating composition comprises, for example, an aqueous (high boiling) and organic (low boiling) solvent (col. 13, lines 48-52; col. 14, lines 30-52; col. 18, lines 54-60; col. 30, lines 45-52).

As to claims 19, 20, 34 and 35, Muir et al. provide examples of compositions of the claimed silicone hydrogel monomer mixture throughout the disclosure (col. 21, lines 16-20, for example). Vanderlaan et al. teach various silicone hydrogel monomer mixtures (col. 2, lines 38-47) and Mueller et al. also disclose conventional silicone based monomers (page 5, lines 13-15; page 6, lines 16-20; page 7, lines 37-page 8, line 6; page 8, lines 17-49; Examples).

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As to claims 52-54, 64-66, and 76-78 the prior art combination teaches the method as set forth above, including the claimed materials, but does not specify the viscosity of the coating compositions. It is noted however that the same claimed materials intrinsically have the same claimed physical properties.

Further, Muir et al. teach adding a diluent, as needed, for the purpose of controlling the ability of the coating polymer to coat the surface of the mold (col. 9, lines 21-23). The diluent controls the viscosity of the material and accordingly the viscosity is controlled as required to produce a coating composition capable of coating the surface of the mold.

As to claims 55-63, 67-75, and 80-87 Muir et al. teach the coating composition comprises, for example, an aqueous (high boiling) and organic (low boiling) solvent (col. 13, lines 48-52). Muir et al. further teach various other solvents for the coating composition such as lower alkanols and glycols (col. 14, lines 30-52) and also disclose ethanol (col. 18, lines 54-60; col. 30, lines 45-52). Muir et al. exemplify ethyl acetate, an obvious variant of the closely related ester, ethyl lactate. Muir et al. further exemplify the solvents at a ratio of about 1:1 (col. 18, lines 54-60).

Claims 9, 10, 24, 25, 39 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Muir et al. (WO 00/04078; published January 27, 2000) in view of either of Mueller et al. (EP 0 362 137) or Vanderlaan et al. (6,087,415) and in view of Martin et al. (US 6,039,899), as applied to claims 1-3, 5-8, 14-20, 23, 31, 32, 34-38, and 52-87 above, and further in view of Li et al. (US 6,565,776).

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As to claims 9, 24, and 39, the prior art combination teaches the method as set forth above. Further, Muir et al. teach the coating is applied by dip molding (col. 25, lines 1-18). Muir et al. do not teach that the coating of the mold is carried out by spin coating. However, Li et al. disclose that dip molding and spin coating are art recognized equivalent methods of applying a coating to a contact lens mold (col. 6, lines 42-62).

Therefore it would have been *prima facie* obvious to one having ordinary skill in the art at the time of the claimed invention to have employed an equivalent means of coating a mold, such as the spin coating method disclosed by Li et al., to coat the mold in the method disclosed by Muir et al. since it has been held that employing art recognized equivalents for the same intended purpose is *prima facie* obvious absent new or unexpected results.

As to claims 10, 25 and 40, Muir et al. exemplify using coating compositions that are applied to the surface of the mold via dip molding followed by application of 40 micro liters of monomer (col. 25, lines 1-18). The amount of coating is implicitly an order of magnitude less than the amount of the bulk material. As such, Muir et al. suggest an obvious overlapping range for the coating composition volume.

Further, Mueller et al. disclose a thickness range of 0.1 – 500 microns for the coating (Abstract). The amount employed to produce such a thickness depends on the size of the article being made and would have been readily optimized through routine experimentation.

Claims 11, 26 and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Muir et al. (WO 00/04078; published January 27, 2000) in view of either of Mueller

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et al. (EP 0 362 137) or Vanderlaan et al. (6,087,415) and in view of Martin et al. (US 6,039,899), and further in view of Li et al. (US 6,565,776) as applied to claims 9, 10, 24, 25, 39 and 40 above, and still further in view of Soye et al. (US 5,316,700).

As to claims 11, 26 and 41, the prior art combination teaches the method as set forth above. Muir et al. do not teach applying pressurized air to an edge of the mold. However, Soye et al. disclose a method of removing excess material by applying pressurized air to an edge of a contact lens mold (Figure 5; col. 3, line 67-col. 4, line 2).

Therefore it would have been *prima facie* obvious to one having ordinary skill in the art at the time of the claimed invention to have employed pressurized air to the contact lens mold as suggested by Soye et al. while practicing the method disclosed by Muir et al. for the purpose as suggested by Soye et al. of removing excess lens forming material.

Claims 19, 20, 34 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Muir et al. (WO 00/04078; published January 27, 2000) in view of either of Mueller et al. (EP 0 362 137) or Vanderlaan et al. (6,087,415) and in view of Martin et al. (US 6,039,899) as applied to claims 1-3, 5-8, 14-18, 23, 31, 32, 36-38, and 52-87 above, and further in view of Turner et al. (WO 0127662). *Note: This is an alternative rejection of claims 19, 20, 34 and 35.* Citations to Tuner et al. are provided from US 6,478,423.

As to claims 19, 20, 34 and 35, the prior art combination teaches the method as set forth above. Muir et al. do not employ the same claimed monomer terms when

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referring to the silicone hydrogel monomers. However, Turner et al. disclose a method of making a contact lens wherein an exemplified lens having desired physiological performance is provided by explicitly employing, in the same terms, the same materials as set forth in the claims (Abstract; col. 2, line 62-col. 3, line 32; Examples 3, 4, and 5).

Therefore it would have been *prima facie* obvious to one having ordinary skill in the art at the time of the claimed invention to have employed the silicone hydrogel monomer disclosed by Turner et al. as the monomer employed by Muir et al. because Turner et al. disclose the composition provides for desirable physiological performance in contact lenses.

Response to Arguments

Applicant's arguments filed March 16, 2007 have been fully considered. The arguments regarding the rejection of claim 1 are moot in view of the new grounds of rejection. Applicant's arguments regarding the rejection of claims 14 and 31 (inadvertently referred to as claim 21 at some points in the REMARKS) are persuasive. However, a new grounds of rejection is made as set forth above.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

<u>US 5,779,943</u>, <u>US 6,719,929</u> and <u>US 6,099,852</u> disclose coating a mold surface with a polymer and filling the coated mold with polymerizable polymer to form a contact lens.

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<u>US 7,091,283</u> discloses curing times between 10-45 seconds are known in the art.

<u>US 6,818,018</u> discloses the art recognized interchangeability of ethyl lactate and ethyl acetate as a solvent. <u>US 4,963,159</u> discloses that ethyl lactate is a known good co-solvent with ethanol in the art of making contact lens.

<u>US 4,895,102</u> discloses a spin coater for coating a mold with a polymerizable material.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeff Wollschlager whose telephone number is 571-272-8937. The examiner can normally be reached on Monday - Thursday 7:00 - 4:45, alternating Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Johnson can be reached on 571-272-1176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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TC)

Jeff Wollschlager Examiner Art Unit 1732

May 23, 2007

CHRISTINA JOHNSON SUPERVISORY PATENT EXAMINER